Applicant : Randy L. Walter
For : AIRPORT MAP DISPLAY SYSTEM AND DATA INTERCHANGE

Atty. Docket No. : SMI33 P-305
Express Mail No. : EV021497360US
Page 1 of 4

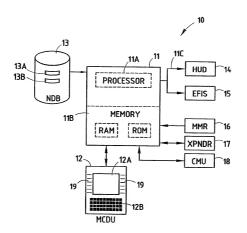


FIG. 1

Applicant For : Randy L. Walter
: AIRPORT MAP DISPLAY SYSTEM AND DATA INTERCHANGE

Atty. Docket No. : SMI33 P-305
Express Mail No. : EV021497360US
Page 2 of 4

16. 2

FIG. 3

WORD #	SΣ	DATA	RANGE	RESOLUTION	LABEL	
	10	01 LATITUDE	20 BITS	.00017 DEG	.00017 DEG 104 FOR RUNWAY IDENT	
 2	00	LONGITUDE	20 BITS	.00017 DEG	004 FOR RUNWAY IDENT	8
 m	00	00 TEXT (3 ASCII)	7 BITS EACH			
 4	5	TEXT (3 ASCII)	7 BITS EACH	-		
		,				

Applicant For : Randy L. Walter

: AIRPORT MA
METHOD
Docket No. : SMI33 P-305

Atty. Docket No. Express Mail No.

press Mail No. : EV021497360US ge 3 of 4

1. \triangle Lat = (Lat - Ref Lat) ×Earth Radius

2. $\Delta Lon = (Lon - Ref Lon) \times Cos ((Lat + RefLat)/2)$

3. Course = Arctan (Δ Lon/ Δ Lat)

4. Distance = $Sqrt(\Delta Lat^2 + \Delta Lon^2)$

5. Scale = Distance×10

New Lat = Ref Lat + Scale×Cos(Course)/Earth Radius ø.

. New Lon = Ref Lon + Scale×Sin (Course)/ (Earth Radius×Cos ((Ref Lat + New Lat)/2)

FIG. 4

Applicant For Randy L. Walter AIRPORT MAP DISPLAY SYSTEM AND DATA INTERCHANGE METHOD

Atty. Docket No. Express Mail No. Page 4 of 4 SMI33 P-305 EV021497360US

